

(12) United States Patent

Shilovitsky

US 11,037,103 B1 (10) Patent No.:

(45) Date of Patent: Jun. 15, 2021

(54) SYSTEM AND METHOD FOR COLLABORATIVE BILL OF MATERIALS **MANAGEMENT**

- (71) Applicant: Oleg Shilovitsky, Newton, MA (US)
- Inventor: Oleg Shilovitsky, Newton, MA (US)
- Assignee: Newman Cloud, Inc., Newton, MA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 500 days.
- (21) Appl. No.: 15/460,803
- Mar. 16, 2017 (22) Filed:

Related U.S. Application Data

- (60)Provisional application No. 62/309,314, filed on Mar. 16, 2016.
- (51) **Int. Cl.** G06F 15/16 (2006.01)G06Q 10/08 (2012.01) $G06\widetilde{F}$ 16/00 (2019.01)G06O 10/10 (2012.01)H04L 29/06 (2006.01)G06F 21/60 (2013.01)G06F 21/62 (2013.01)
- (52) U.S. Cl.
 - CPC G06Q 10/103 (2013.01); G06F 21/604 (2013.01); G06F 21/6227 (2013.01); G06Q 10/0875 (2013.01); H04L 63/102 (2013.01)
- Field of Classification Search

CPC G06Q 10/103; G06Q 10/0875; G06F 21/604; G06F 21/6227; H04L 63/102

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

6,564,246	B1 * 5/2003	3 Varma G06Q 10/10
		709/205
7,558,793		
7,610,312	B1 * 10/2009	P Topolovac G06Q 10/087
7,801,916	B1 * 9/2010	Topolovae G06Q 10/0875
		707/783
8,082,301	B2 * 12/201	Ahlgren G06F 21/6218
		709/204
8,103,694	B1 * 1/2012	2 Topolovac G06Q 10/087
		707/786
2002/0055886	A1* 5/2002	2 Hinckley G06Q 10/087
		705/26.1
2003/0009410	A1* 1/2003	3 Ramankutty G06Q 40/04
		705/37

(Continued)

Primary Examiner — Talia F Crawley (74) Attorney, Agent, or Firm — Ascentage Patent Law, LLC; Travis Lee Johnson

(57)ABSTRACT

The present disclosure relates to a system and method for collaborative Bill of Materials (BOM) management, said system comprising a user rights based BOM editing module that enables a first user to, based on rights assigned to the first user, edit the BOM, wherein the BOM comprises a plurality of structured fields, each of the plurality of structured fields having at least one defined property. The system of the present invention further comprises a user rights based BOM edit update module that updates at least a second user of the editing done by the first user based on rights assigned to the second user, wherein the rights of the second user are at least for the sections or fields edited by the first user; and a user update based BOM version management module that makes a version of the BOM based on the editing done by the first user.

19 Claims, 15 Drawing Sheets

